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PATENTANWÄLTE RECHTSANWÄLTE

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Anmeldung Nr./Application No./Demande n°/Patent Nr./Patent No./Brevet n°.

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Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire

mitsubishi denki kabushiki kaisha

COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

☒ Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

The following specifications given by the applicant have been approved by the Search Division:

☒ abstract

☒ title

☐ The abstract was modified by the Search Division and the definitive text is attached to this communication.

The following figure will be published together with the abstract: 1A, 1B, 1C

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 00 12 6506

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	US 4 102 040 A (RICH BERNARD J) 25 July 1978 (1978-07-25) * column 8, line 8 - column 10, line 43; figures 1-17 *	1-10	H02K1/16 H02K15/02
A	DE 17 63 506 A (LICENTIA GMBH) 11 November 1971 (1971-11-11) * page 3, line 19 - page 4, line 18; figure 1 *	1-10	
A	US 3 886 256 A (OHUCHI YASUSHI ET AL) 27 May 1975 (1975-05-27) * column 2, line 44 - column 4, line 25; figures 1-11 *	1-10	
A	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 14, 31 December 1998 (1998-12-31) ✓ & JP 10 234159 A (HITACHI LTD), 2 September 1998 (1998-09-02) * abstract *	1-10	
A	PATENT ABSTRACTS OF JAPAN vol. 017, no. 608 (E-1457), 9 November 1993 (1993-11-09) ✓ & JP 05 184105 A (KURODA PRECISION IND LTD), 23 July 1993 (1993-07-23) * abstract *	1-10	TECHNICAL FIELDS SEARCHED (Int.Cl.7) H02K
A	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 07, 31 July 1996 (1996-07-31) & JP 08 080014 A (TOYOTA MOTOR CORP), 22 March 1996 (1996-03-22) ✓ * abstract *	1-10	
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 9 January 2002	Examiner Tangocci, A
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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EUROPEAN SEARCH REPORT

Application Number
EP 00 12 6506

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	US 5 831 366 A (MCLEAN GRAHAM ET AL) 3 November 1998 (1998-11-03) * column 4, line 4 - line 28; figures 3-5 * -----	1-10	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 9 January 2002	Examiner Tangocci, A
CATEGORY OF CITED DOCUMENTS			
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1
EPO FORM 1503.03.92 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 12 6506

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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09-01-2002

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 4102040	A	25-07-1978	FR	2316776 A1	28-01-1977
			FR	2341976 A2	16-09-1977
			FR	2342576 A1	23-09-1977
			BR	7604385 A	26-07-1977
			DE	2629532 A1	27-01-1977
			ES	449497 A1	16-08-1977
			GB	1546911 A	31-05-1979
			IT	1074246 B	17-04-1985
			JP	52034301 A	16-03-1977
DE 1763506	A	11-11-1971	DE	1763506 A1	11-11-1971
US 3886256	A	27-05-1975	JP	53041321 B	02-11-1978
			DE	2236953 A1	15-02-1973
			DE	2265310 A1	05-05-1977
			US	3842493 A	22-10-1974
JP 10234159	A	02-09-1998	NONE		
JP 05184105	A	23-07-1993	JP	3172226 B2	04-06-2001
JP 08080014	A	22-03-1996	NONE		
US 5831366	A	03-11-1998	US	5489811 A	06-02-1996
			WO	9326077 A1	23-12-1993